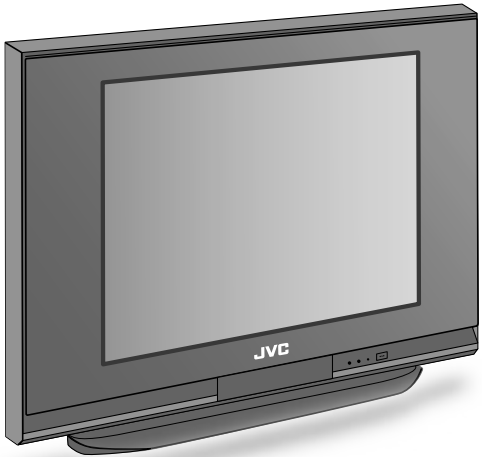
ENGLISH

JVC

COLOUR TELEVISION
INSTRUCTIONS



This illustration shows AV-29ST29B.

AV-29QT19
AV-29RT19S
AV-29RT29S
AV-29ST19B
AV-29ST29B
AV-21RT29S
AV-21ST29B

The illustrations of AV-29ST29B is used in this instruction manual for explanation purpose. Your TV may not look exactly the same as illustrated.

GGT0243-001B-H

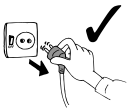
Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- Operate only from the power source indicated on the rear of the TV.

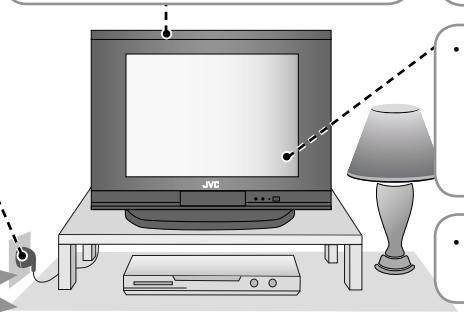
- Avoid damaging the power cord and main plug. When unplugging the TV, grasp the main plug. Do not pull on the power cord.
- This TV can be turned on/off power by connecting/ disconnecting the AC plug into AC outlet. While this TV is being installed, enough space should be reserved for connection/ disconnecting the AC plug into AC outlet by hand.



- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

- Do not allow objects or liquid into the cabinet openings.

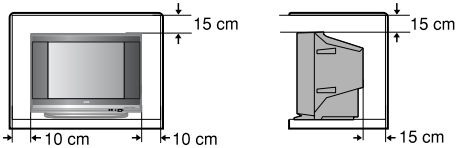
In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.



CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- Never block or cover the ventilation openings.
- Never install the TV where good ventilation is unattainable.
- When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.



- The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

- Never listen to headphones at high volume!
  - It may damage your hearing.

Knowing your TV's features

Please see the chart below and check the function are equipped for your TV's model number.
The model number is indicated at the rear of your TV. When you press a button concerned to a function that is not available for your TV, it does not work and the logo "Ø" appears on the screen.

Function \ Model No.	AV-29QT19	AV-29RT19S	AV-29RT29S	AV-29ST19B	AV-29ST29B	AV-21RT29S	AV-21ST29B
PIP control buttons (Green label)	–	–	•	–	•	•	•
PICTURE TILT	•	•	•	•	•	–	–
MaxxBass	–	•	•	•	•	•	•
AI ECO SENSOR	–	•	•	•	•	•	•
ECO MODE	•	–	–	–	–	–	–

Features	Descriptions
DVD MENU	Just connect DVD player to the television. The television will detect DVD signal and display picture on the screen automatically and you can adjust pictures and sound while you are watching DVD as your desire. When disconnect DVD player, the television will display the previous channel.
MaxxBass	MaxxBass enhances bass sound that cannot be reproduced by normal speakers to be heard by our ears.
PIP (Picture in Picture)	You can view two screens (Main picture and Sub picture) at the same time.
MTS	You can listen the stereo sound or SAP from TV program broadcasting by MTS system. (SAP: Second audio program.)
CLOSED CAPTION	You can display dialog on the screen from TV broadcasting with Closed caption system. You also may be able to display some information in text form if available.
FAVORITE CH (Channel)	You can register up to four favorite channels for quick recall with one press.
AI ECO SENSOR	TV detects the brightness of your room and automatically adjust the picture brightness to a suitable level for a better eyecare.
ECO MODE	You can adjust TV screen contrast according to the brightness of your room to suitable level for a better eyecare.
AI VOLUME	TV adjusts the volume automatically for all TV channels to avoid sudden change of the volume when selecting different TV channels or selecting Video Mode.
VNR	You can reduce the picture noise when viewing noisy TV programs or video sources.

Note : Some functions written in this instruction manual may not be available for your TV.

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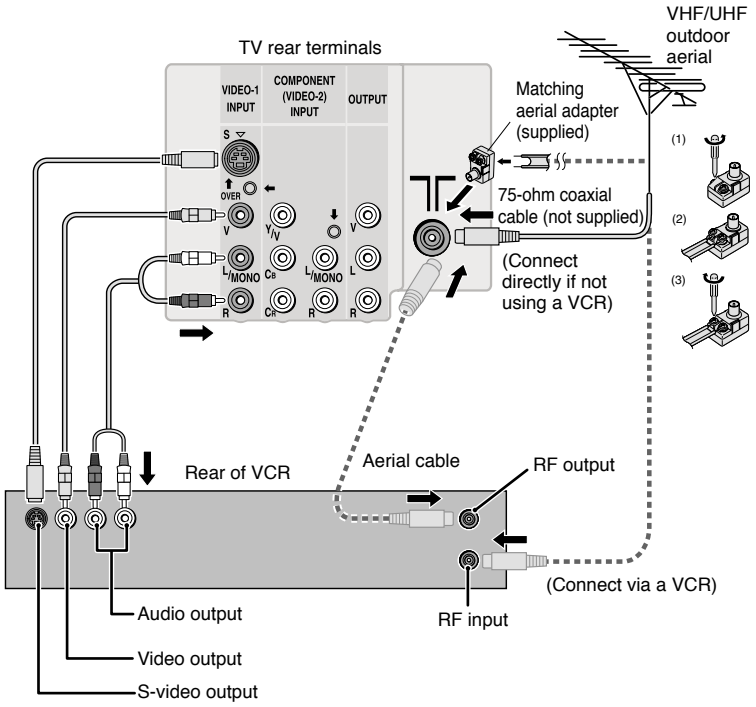
Connections

The illustration of AV-29ST29B is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.

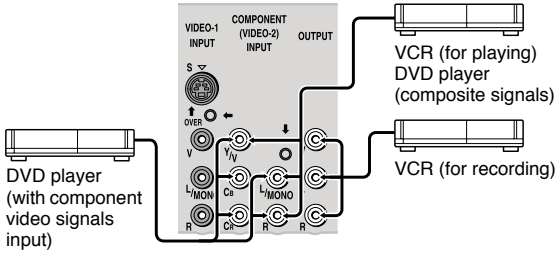
CAUTION

Ensure to turn off all equipments including the TV before connecting the AC main plug to the AC outlet.

Connecting to the aerial cable and VCR

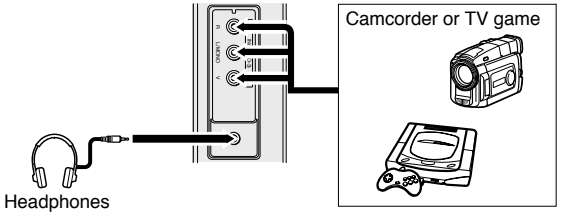


Connecting to the rear component/video input terminal and output terminal



- When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (➡ page 14).

Connecting to the front video input terminal



After all the connections have been made, insert the main plug to the AC outlet.

Initial settings

1

Turn on the TV

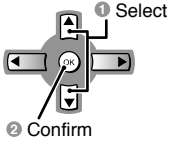
JVC

JVC logo appears

OK or wait 15 seconds to run Setup Tour

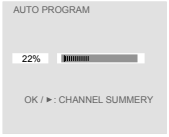
2

Select AIR or CABLE



3

Searching for the channels (AUTO PROGRAM)



OK **To stop or wait until AUTO PROGRAM finishes**

4

Set undesired channels to be skipped

➡ page 14.

MENU or TV/VIDEO

To complete Setup Tour

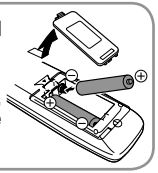
To restart Setup Tour after above setup has completed

MENU → 1

(while the cursor is pointing to PICTURE MODE and within 3 seconds)

Remote control buttons and basic functions

- Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.
- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



WARNING:
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

If this symbol is shown, it is only valid in the European Union.

Operating the menus (➡ page 7)

- Display the programme or video terminal number and stereo/bilingual broadcast system.
- To return to the previous menu

Display information in text which are broadcasted by some TV channels. (➡ page 14)

RETURN PLUS function
Return to the frequently viewed channel.

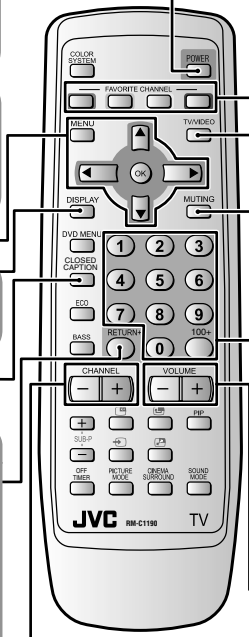
Choose the channel you want to programme

Press and hold ➡ RETURN PLUS PROGRAMMED!

To cancel

Press and hold ➡ RETURN PLUS CANCELED!

RETURN function
If you have not set or have cancelled the RETURN PLUS channel, this will return to the previously viewed channel.



Turn the TV on from standby and vice versa

Programme and recall 4 favourite channels
(colour buttons: red, green, yellow, blue)

Choose the TV channel you wish to programme

Press and hold any button ➡ PROGRAMMED! ■

Repeat to programme another favourite channel.

To recall the favourite channel, press the corresponding colour button.
- When the TV is in Text function or MENU mode, the favourite channel function is not available.
- When the TV is in PIP function, the favourite channel function cannot be programmed but can recall the favourite channel.

TV or video terminal input selection, Exit from the menu

Turn the volume Off / On

Programme number selection
For three digits :

Adjust the volume level, Turn off Muting

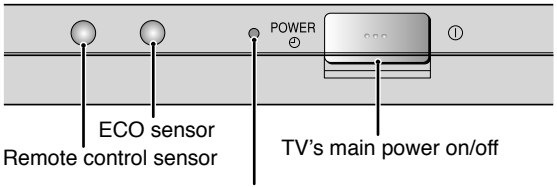
Channel selection
Select the desired channel number.

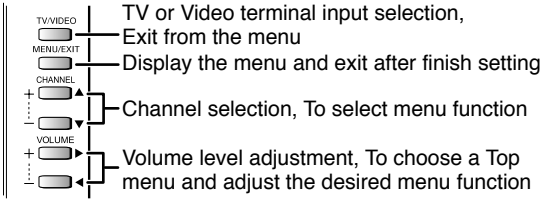
For Hyper Scan

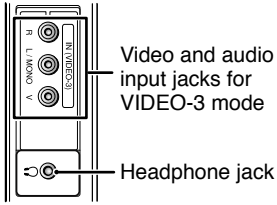
Press and hold ➡ PR changes without changing the picture. Once you stop pressing CHANNEL+ or CHANNEL– button, picture will change to the desired PR.

TV buttons and functions

The illustration of AV-29ST29B is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.




TV/VIDEO
MENU/EXIT
CHANNEL
VOLUME
TV or Video terminal input selection, Exit from the menu
Display the menu and exit after finish setting
Channel selection, To select menu function
Volume level adjustment, To choose a Top menu and adjust the desired menu function



Power lamp - Indicates the TV's status.
No colour: TV's main power is being turned off.
Red: TV's main power is turned on.
Blink: While the TV is in standby mode, ON TIMER function is in used.
While the TV is in turn on mode, OFF TIMER function is in used.
Note: When you turn off the power switch while TV is in standby mode, the power lamp will go off in 5-10 seconds. When you operate the TV, POWER Lamp will blink.

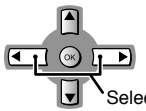
Operating the menus

(MENU) ➡ (TOP menu) ➡ (2nd menu) ➡ (3rd menu)

Example: (MENU) ➡ (SET UP menu) ➡ (EDIT/MANUAL) ➡ (EDIT)

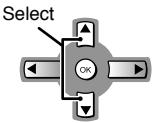
To display the MENU.

To select a Top menu.



When the cursor is at MENU.

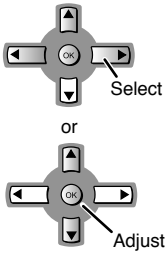
To select a second menu.



To display other pages.

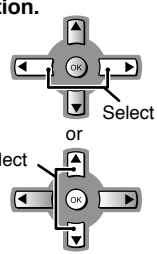
To return to the previous menu.

To select for go to third menu.



Depend to the on screen guide.

To select, adjust or choose the setting of a function.



Depend to the on screen guide.

To exit.

Operating the menus (continued)

You can use the DVD □

			For RF / Video-1 / Video-3 (MENU)	For Video-2 (DVD MENU)
Top menu	Page	2nd menu	3rd menu / Adjustments	3rd menu / Adjustments
PICTURE or DVD MENU PICTURE*	9	PICTURE MODE	USER / VIVID / SOFT	DVD THEATER STATUS set to OFF : USER / DETAIL / CLEAR / VIVID / SOFT DVD THEATER STATUS set to ON : USER / DETAIL / CLEAR
	9	PICTURE SETTING	PICTURE MODE set to USER : PICTURE / BRIGHT/ DETAIL/ COLOR / TINT PICTURE MODE set to SOFT or VIVID:–	PICTURE MODE set to USER : PICTURE / BRIGHT/ DETAIL / COLOR / TINT PICTURE MODE set to DETAIL or CLEAR or SOFT or VIVID : –
	9	WHITE BALANCE	NORMAL / COOL / WARM	DVD THEATER STATUS set to OFF : NORMAL / COOL / WARM DVD THEATER STATUS set to ON : –
	12	VNR (Only available in RF, VIDEO-1 and VIDEO-3)	OFF / AUTO / MIN / MAX	–
	12	AUTO SIGNAL DETECT (Only available in VIDEO-2)	–	ON / OFF
	12	DVD THEATER STATUS (Only available in VIDEO-2)	–	ON / OFF
SOUND or DVD MENU SOUND*	11	MTS	STEREO / SAP / MONO	–
	11	AI VOLUME	ON / OFF	ON / OFF
	11	SOUND MODE	USER / MUSIC / CINEMA / NEWS	USER / MUSIC / CINEMA / DRAMA
	11	EQUALIZER (SOUND MODE set to USER and CINEMA SURROUND set to OFF only)	Adjust the sound level of each frequencies.	Adjust the sound level of each frequencies.
	11	BALANCE	Left Stronger / Right Stronger	Left Stronger / Right Stronger
	11	CINEMA SURROUND	ON / OFF	ON / OFF
	11	MaxxBass	OFF / HIGH / LOW	OFF / HIGH / LOW
FEATURES	12	ON TIMER	Set timer for turn on the TV	Set timer for turn on the TV
	13	OFF TIMER	Set timer for turn off the TV	Set timer for turn off the TV
	13	CHILD LOCK	ON / OFF	ON / OFF
	9	COMPRESS (16:9)	ON / OFF	ON / OFF
	10	AI ECO SENSOR or ECO MODE	OFF / MODE-1 / MODE-2 / DISPLAY or OFF / ECO-1 / ECO-2	DVD THEATER STATUS set to OFF : OFF / MODE-1 / MODE-2 / DISPLAY or OFF / ECO-1 / ECO-2 DVD THEATER STATUS set to ON : –
	13	VIDEO-2 SETTING	VIDEO / COMPONENT	VIDEO / COMPONENT
	9	BLUE BACK	ON / OFF	ON / OFF
	13	CLOSED CAPTION	CAPTION / TEXT	CAPTION / TEXT
	10	PICTURE TILT	Tilt the picture.	Tilt the picture.
	13	BEEP	ON / OFF	ON / OFF
SET UP	14	AUTO PROGRAM	Register the TV channel.	Register the TV channel.
	14	CHANNEL SUMMARY	SKIP / CANCEL	SKIP / CANCEL
	9	COLOR SYSTEM	RF : NTSC3.58 VIDEO : AUTO / PAL / SECAM / NTSC3.58 / NTSC4.43	VIDEO-2 SETTING set to COMPONENT : AUTO VIDEO-2 SETTING set to VIDEO : AUTO / PAL / SECAM / NTSC3.58 / NTSC4.43

* For DVD THEATER STATUS set to ON only

Picture setting

COLOR SYSTEM

You can select the appropriate colour system when the picture is not clear or no colour appears.

AUTO → PAL → SECAM → NTSC3.58* → NTSC4.43

* For TV mode, Color system fix to NTSC3.58 only.

You can also operate this function from the menu.

(MENU) ➡ (SET UP menu) ➡ (COLOR SYSTEM)

For the colour system in each country or region, see the table below:

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, Indonesia, Malaysia, Singapore, Thailand, India, China, Vietnam, Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
Europe	Russia, etc.	SECAM
	Czech Republic, Poland, Germany, Holland, Belgium, UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
Africa	Republic of South Africa, Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

WHITE BALANCE

You can change the white balance of the picture to better match the type of video being viewed.

(MENU) ➡ (PICTURE menu) ➡ (WHITE BALANCE)

NORMAL	Normal white balance
COOL	Bluish white
WARM	Reddish white

When DVD THEATER STATUS set to ON, WHITE BALANCE is not available in VIDEO-2. ➡ Page 8.

COMPRESS (16:9)

You can convert a normal picture (4:3 aspect ratio) into a wide picture (16:9 aspect ratio).

(MENU) ➡ (FEATURES menu) ➡ (COMPRESS (16:9)) (Choose ON or OFF)

PICTURE MODE

You can choose the desired picture setting with one-touch.

USER	You can change this picture setting (PICTURE, BRIGHT, DETAIL, COLOR, TINT) as you like. (➡ PICTURE SETTING)
DETAIL	To sharpen the picture.
VIVID	Heightens contrast and sharpness.
SOFT	Softens contrast and sharpness.
CLEAR	To soften the picture.

You can also operate this function from the menu.

(MENU) ➡ (PICTURE menu) ➡ (PICTURE MODE)

To return the USER setting to default, press the blue button when the PICTURE SETTING menu is displayed.

See details for the location menus in "Operating the menus" ➡ Page 8.

PICTURE SETTING

You can adjust the desired picture setting when selecting USER in PICTURE MODE.

1 (MENU) ➡ (PICTURE menu) ➡ (PICTURE MODE) ➡ (USER)

2 (MENU) ➡ (PICTURE menu) ➡ (PICTURE SETTING)

PICTURE	◄ : Lower contrast	► : Higher contrast
BRIGHT	◄ : Darker	► : Brighter
DETAIL	◄ : Softer	► : Higher
COLOR	◄ : Lighter	► : Deeper
TINT	◄ : Reddish	► : Greenish

See details for the location menus in “Operating the menus” ➡ Page 8.

BLUE BACK

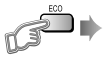
You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an antenna.

(MENU) ➡ (FEATURES menu) ➡ (BLUE BACK) (Choose ON or OFF)

This function is only available in RF mode.

AI ECO SENSOR (ECO)/ECO MODE

You can automatically adjust TV screen contrast according to the brightness of your room.



OFF	Cancel the function.
MODE-1/ECO-1	Mild contrast (recommended).
MODE-2/ECO-2	Even contrast.
DISPLAY (for AI ECO SENSOR only)	Display the graphic of the function.

You can also operate this function from the menu.

(MENU) ➡ (FEATURES menu) ➡ (AI ECO SENSOR / ECO MODE)

Note: AI ECO SENSOR for S and R series.
ECO MODE for Q series.

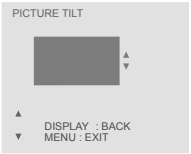
When DVD THEATER STATUS set to ON, AI ECO SENSOR / ECO MODE is not available in VIDEO-2. ➡ Page 8.

Correcting the Slanting Picture (PICTURE TILT)

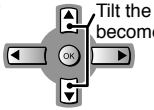
You can correct the picture tilt caused by the earth's magnetic force.

1 (MENU) ➡ (FEATURES menu) ➡ (PICTURE TILT)

The following display appears.



2 Tilt the picture becomes level



To confirm

Picture in picture (PIP) operation

You can display a sub picture within the main picture on the screen.

to display the sub picture.

You can hear the sound from the main picture only.

When main picture and sub picture are the same TV channel:

Press SUB-P -/+	Main picture will be changed TV channel follow as sub picture.
Press (Input)	To change sub picture to video mode.
Press CHANNEL -/+	Sub picture will be changed TV channel follow as Main picture.
Press CHANNEL -/+	Until main picture change to video mode.

To cancel, press the PIP button again.

While a sub picture is being displayed, you can perform the following functions.

(SUB-P)	Select the desired TV channel for sub picture.
(Input)	Select the input source for the sub picture.
(Swap)	Swap between the main picture and sub picture.
(Position)	Change the sub picture position. lower right → lower left → upper right ← upper left
(Freeze)	Freeze the sub picture.

When VIDEO-2 is set to component, you cannot select VIDEO-2 for sub picture.
When VIDEO-2 is set to component and if the input source of the main picture is set to VIDEO-2 with component, PIP button is disabled and sub picture cannot be displayed.

Sound setting

MaxxBass

You can enjoy an enhanced bass sound which cannot be played by normal speakers.

OFF	MaxxBass is turned off.
HIGH	MaxxBass effect is high.
LOW	MaxxBass effect is low.

You can also operate this function from the menu.

(MENU) ➡ (SOUND menu) ➡ (MaxxBass)

"MaxxBass" is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

CINEMA SURROUND

You can enjoy an enhanced sound for wider audience.

OFF	Cancel the function.
ON	Listen to sound with wider audience effect.

You can also operate this function from the menu.

(MENU) ➡ (SOUND menu) ➡ (CINEMA SURROUND)

EQUALIZER

You can adjust the sound level of each frequencies when selecting USER mode in SOUND MODE.

1 (MENU) ➡ (SOUND menu) ➡ (SOUND MODE) ➡ (USER)

2 (MENU) ➡ (SOUND menu) ➡ (EQUALIZER)

3 Select and adjust the desired frequencies.

Adjust high frequency will affect higher pitch sound and vice versa.
When CINEMA SURROUND set to ON, you cannot adjust EQUALIZER (➡ page 8).

BALANCE

You can adjust the volume balance between the left and right speakers.

(MENU) ➡ (SOUND menu) ➡ (BALANCE)

SOUND MODE

You can choose the desired sound setting.

USER	Change the sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (100, 300, 1K, 3K, 8K Hz), ➡ page 11.
MUSIC	Emphasize on music effect.
CINEMA	Emphasize on movie sound.
NEWS	Emphasize on vocal sound.
DRAMA	Emphasize on drama sound.

You can also operate this function from the menu.

(MENU) ➡ (SOUND menu) ➡ (SOUND MODE)

When SOUND MODE is set to other than USER, EQUALIZER function becomes unavailable.

See details for location menus in "Operating the menus" ➡ Page 8.

AI VOLUME

You can adjust the volume of all the channels and video inputs to the same level automatically depends on the strength of signal of the sources.

(MENU) ➡ (SOUND menu) ➡ (AI VOLUME) (Choose ON or OFF)

MTS

You can enjoy the stereo and SAP broadcasted programs.

(MENU) ➡ (SOUND menu) ➡ (MTS)

STEREO	Select stereo sound.
SAP	Select second audio programs.
MONO	Select monaural sound.

This function is not available in video mode.

Customized setting

AUTO SIGNAL DETECT

When the DVD input signal is detected, the input mode will automatically change to VIDEO-2 and when the DVD input signal is not detected, the input mode will automatically change to RF previous input mode.
DVD players: Press the “POWER ON” button on the player for signal detection.
VCRs: Press the “POWER ON” button on the device, followed by the “PLAY” button, signal detection and DVD menu display.

DVD MENU PICTURE ➡ AUTO SIGNAL DETECT (Choose ON or OFF)

Only available in VIDEO-2 mode. ➡ Page 8.

DVD THEATER STATUS

You can enjoy an enhanced picture quality for movie playback in a dark room, like watching a movie in the theater.

DVD MENU PICTURE ➡ DVD THEATER STATUS

OFF	Cancel the function.
ON	Enjoy movie playback with suitable colour temperature, sharp subtitles and improved gradation for black, like in a theater.

When you set DVD THEATER STATUS to ON, AI ECO SENSOR / ECO MODE and WHITE BALANCE adjustment become unavailable.

Only available in VIDEO-2 mode. ➡ Page 8.

VNR

You can reduce the picture noise.

MENU ➡ PICTURE menu ➡ VNR

OFF	VNR is turned off.
AUTO	Effect of VNR is automatically controlled.
MIN	Effect of VNR becomes minimum level.
MAX	Effect of VNR becomes maximum level.

If you select MAX, the picture becomes softer even if the original picture is sharp.
Only available in RF, VIDEO-1 and VIDEO-3. ➡ Page 8.

ON TIMER

You can set the TV to turn on automatically from standby mode at a set channel and time.

1 MENU ➡ FEATURES menu ➡ ON TIMER

2 Choose the CH (channel) that you want to watch when the TV turns on. External input, AV position and any un-preset channel cannot be chosen for CH.

3 Set the ON TIMER to your desired period of time.
When the ON TIMER is set to other than 00:00, the ON TIMER is activated. You can set the period of time to a maximum of 12 hours in 15-minute intervals.

4 To off the ON TIMER, set ON TIMER to OFF.

Note: If TV is not in standby mode when ON TIMER is reach the setting time, this case is not available.

OFF TIMER

You can set the TV to turn off automatically to standby mode after a set time.

1 (MENU) ➡ (FEATURES menu) ➡ (OFF TIMER) ➡

Note: You can select OFF TIMER function by direct key.

2 You can set the period of time to a maximum of 120 minutes in 10 minutes intervals.

3 When the remaining elapse time is one minute, “GOOD NIGHT!” appears on the screen.

4 You can display the OFF TIMER screen again to confirm or change the remaining time.

5 To off the OFF TIMER, select OFF or turn off the TV’s main power.

BEEP

You can use the BEEP function to alert you during AUTO SIGNAL DETECT, AI ECO SENSOR Detect, Stereo Detect, ON TIMER/OFF TIMER operations and when some buttons on the remote control are pressed.

(MENU) ➡ (FEATURES menu) ➡ (BEEP) (Choose ON or OFF)

CHILD LOCK

You can disable the front control buttons of the TV.

(MENU) ➡ (FEATURES menu) ➡ (CHILD LOCK) (Choose ON or OFF)

VIDEO-2 SETTING

You can set the VIDEO-2 SETTING according to the video signal output from external devices connected to the VIDEO-2 terminal.

(MENU) ➡ (FEATURES menu) ➡ (VIDEO-2 SETTING) (Factory setting is COMPONENT)

VIDEO	If a normal video signal (composite video signal) is input.
COMPONENT	If a component video signal ($Y/C_B/C_R$) is input.

You must choose a setting according to the signal that you input to VIDEO-2. (If you input the VIDEO Signal or VCR Signal to VIDEO-2, you must set VIDEO-2 SETTING to VIDEO.)

For connection, ➡ page 4.

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.

➡ OFF → CLOSED CAPTION → TEXT

You can also operate this function from the menu.

1 (MENU) ➡ (FEATURES menu) ➡ (CLOSED CAPTION)

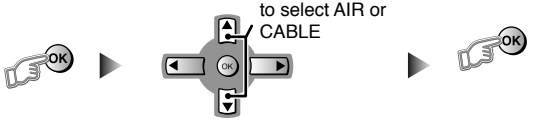
2 Press the ◄/► button to select the desired caption or text channel.

TV channel presetting

To register the TV channels automatically (AUTO PROGRAM)

You can register the TV channels into the TV's channel list automatically.

1 (MENU) ➡ (SET UP menu) ➡ (AUTO PROGRAM)

2 

3 AUTO PROGRAM function starts, and the channels received are registered automatically.

CHANNEL SUMMARY

You can set undesired channels to be skipped. Channels are to be skipped cannot be selected by the CHANNEL -/+ button.

1 (MENU) ➡ (SET UP menu) ➡ (CHANNEL SUMMARY)

2

3 Choose the channel which you want to skip. The skip can be set to all channels of AIR (CH02-CH69) and CABLE (CC01-CC125).

4 (Yellow) to skip the channel.

5 (blue) to cancel the skip.

6 OK to exit

Troubleshooting

If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

Problem	Cause / Solution	Page
No picture, no sound	• Deactivate the BLUE BACK function if it is turned on.	9
Snowy picture	• Check the aerial cable and TV connections.	4
Stripes appear on the picture	• Interference caused by devices such as an amplifier, personal computer, or a hair drier. Move it away from your TV.	–
Double-pictures (ghosting) occur	• Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial's direction or use another antenna.	–
Poor picture	• Choose the appropriate colour system. Refer to "COLOR SYSTEM". • Adjust the COLOR or BRIGHT setting. Refer to "PICTURE SETTING".	9 9
White and bright still image look as if it was coloured	• Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.	–
Top of the image from software products or video tape is distorted	• Due to the condition of the video signal, the image was not properly recorded. This is not a malfunction.	–
Stereo or SAP sound is unclear	• TV channel reception is poor. Change the stereo/SAP mode to mono sound.	11
Cannot operate the remote control	• The batteries may be exhausted. Replace with new batteries. • Ensure that you are operating the remote control at less than seven meters from the front of your TV.	6
Cannot operate the menus	• Press TV/VIDEO button to return to TV mode and try operating the menus.	–
Cannot operate the front control buttons	• Deactivate the CHILD LOCK function if it is turned on.	13

Problem	Cause / Solution	Page
Colour patches appear at the corner of the screen	• This maybe due to magnetized device such as a speaker placed near to your TV. Move it away from your TV. Alternatively, you can also use the magnetic shielded speaker.	–
Picture is tilted	• This maybe due to the earth magnetism. Refer to "PICTURE TILT" to correct the tilt.	10
Image takes a short period to be displayed	• Image required time to stabilize before display. This is not a malfunction.	–
TV may emit crackling sound	• This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.	–
Feel a slight electric shock when touching the TV screen	• This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.	–
AUTO SIGNAL DETECT does not work	• Set the AUTO SIGNAL DETECT function to ON. • Turn the VCR or DVD Player off and on again. • Check that the video cable connection on VIDEO-2 is properly connected.	12 – –
Suddenly, the TV input changes to VIDEO-2	• Check whether the AUTO SIGNAL DETECT function is on or off. • AUTO SIGNAL DETECT function may work when you operate the VCR or DVD player even if you do not make it to playback.	12 –
AUTO SIGNAL DETECT does not work correctly	• Check the video cable connection. • Some VCR or DVD player may output the video signal discontinuously. If this happens, AUTO SIGNAL DETECT function cannot work correctly.	– –
"PLEASE DISCONNECT VIDEO-1 CABLE!" appears on the screen.	• Please disconnect either S-VIDEO cable or video input cable from video-1 input.	–

Specifications

TV RF systems	M
Colour systems	TV mode : NTSC3.58 MHz VIDEO mode : PAL, SECAM, NTSC3.58 MHz, NTSC4.43 MHz
Receiving channels	VHF low channel (VL), VHF high channel (VH), UHF channel (U)
	Receives cable channels in mid band, super band and hyper band.
Power requirements	AC 110 to 240 V, 50 Hz / 60 Hz
External input / output	
VIDEO-1	S-video input, VIDEO input, AUDIO L/R input
VIDEO-2/COMPONENT	VIDEO input, AUDIO L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input
VIDEO-3	VIDEO input, AUDIO L/R input
OUTPUT	VIDEO output, AUDIO L/R output
Headphone jack	Stereo mini jack (3.5 mm diameter)
Sound-multiplex systems	MTS (Multi-channel Television Sound)
Viewing Screen Size (Visible area)	
AV-21RT29S	508.0 mm
AV-21ST29B	508.0 mm
AV-29QT19	676.0 mm
AV-29RT19S	676.0 mm
AV-29RT29S	676.0 mm
AV-29ST19B	676.0 mm
AV-29ST29B	676.0 mm

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